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BATCH **COMPLETE**

PROJECTED ITERATIONS: 2689 TO 4271
PROJECTED ANSWERS: 0 TO 0

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11 ANSWERS

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=> s 13

L4 12 L3

=> d 14 1-12 ibib abs hitstr

L4 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2007:128262 CAPLUS <<LOGINID::20080602>>

DOCUMENT NUMBER: 147:400820

TITLE: Laser microdissection and cryogenic nuclear magnetic resonance spectroscopy: An alliance for cell

type-specific metabolite profiling. [Erratum to

document cited in CA147:380704]

AUTHOR(S): Hoelscher, D.; Schneider, B.

CORPORATE SOURCE: Beutenberg Campus, Max-Planck-Institut fuer Chemische

> Oekologie, Jena, 07745, Germany Planta (2007), 225(3), 781

SOURCE : CODEN: PLANAB; ISSN: 0032-0935

PUBLISHER: Springer DOCUMENT TYPE: Journal

LANGUAGE: English

On page 781, the Author line and Affiliation line are incorrect. The correct versions of each are given.

455255-52-4P 455255-54-6P IT

RL: ANT (Analyte); BSU (Biological study, unclassified); PUR (Purification or recovery); ANST (Analytical study); BIOL (Biological study); PREP (Preparation)

(laser microdissection and cryogenic NMR spectroscopy for plant cell methoxyphenylphenalenones (Erratum))

RN 455255-52-4 CAPLUS

CN 1H,3H-Naphtho[1,8-cd]pyran-1-one, 6-[[6-0-[[(aminocarbonyl)amino]carbonyl]β-D-glucopyranosyl]oxy]-5-hydroxy-7-phenyl- (CA INDEX NAME)

Absolute stereochemistry.

455255-54-6 CAPLUS RN

CN 1H-Phenalen-1-one, 6-[[6-0-[[(aminocarbony1)amino]carbony1]-β-Dglucopyranosyl]oxy]-2,5-dihydroxy-7-phenyl- (CA INDEX NAME)

ANSWER 2 OF 12 CAPLUS COPYRIGHT 2008 ACS on STN

2007:128259 CAPLUS <<LOGINID::20080602>> ACCESSION NUMBER:

DOCUMENT NUMBER: 147:380704

TITLE: Laser microdissection and cryogenic nuclear magnetic

resonance spectroscopy: An alliance for cell

type-specific metabolite profiling

AUTHOR(S): Schneider, B.; Hoelscher, D.

CORPORATE SOURCE: Beutenberg Campus, Max-Planck-Institut fuer Chemische

Oekologie, Jena, 07745, Germany Planta (2007), 225(3), 763-770 SOURCE:

CODEN: PLANAB; ISSN: 0032-0935

Springer PUBLISHER . DOCUMENT TYPE: Journal LANGUAGE: English

Laser microdissection was used as a tool to harvest secretory cavities (SC) from leaves of Dilatris pillansii Barker (Haemodoraceae) and from leaves and flowers of herbarium specimens of Dilatris corymbosa Berg. and Dilatris viscosa L. Cryogenic 1H NMR spectroscopy and HPLC anal. of

microdissected samples indicated specific accumulation of

methoxyphenylphenalenones in the SC. The structures of two novel and a known natural product in the secretory tissue were confirmed by comparison with authentic compds. isolated from rhizomes and roots from which further phenylphenalenones and phenylphenalenone glucosides were isolated and identified by spectroscopic methods. How it will be possible to use the

LMD technique to localize natural products in specific plant cell populations is also discussed.

455255-52-4P 455255-54-6P

RL: ANT (Analyte); BSU (Biological study, unclassified); PUR (Purification or recovery); ANST (Analytical study); BIOL (Biological study); PREP (Preparation)

(laser microdissection and cryogenic NMR spectroscopy for plant cell methoxyphenylphenalenones)

RN 455255-52-4 CAPLUS

1H,3H-Naphtho[1,8-cd]pyran-1-one, 6-[[6-0-[[(aminocarbonyl)amino]carbonyl]-CN B-D-glucopyranosylloxyl-5-hydroxy-7-phenyl- (CA INDEX NAME)

Absolute stereochemistry.

RN 455255-54-6 CAPLUS

CN 1H-Phenalen-1-one, 6-[[6-0-[[(aminocarbonyl)amino]carbonyl]-β-Dglucopyranosyl]oxy]-2,5-dihydroxy-7-phenyl- (CA INDEX NAME)

Absolute stereochemistry.

REFERENCE COUNT: 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2006:615923 CAPLUS <<LOGINID::20080602>> DOCUMENT NUMBER: 146:157982

TITLE: A type III polyketide synthase from Wachendorfia

thyrsiflora and its role in diarylheptanoid and

phenylphenalenone biosynthesis

AUTHOR(S): Brand, S.; Hoelscher, D.; Schierhorn, A.; Svatos, A.; Schroeder, J.; Schneider, B.

CORPORATE SOURCE: Max-Planck-Institut fuer Chemische Oekologie,

Beutenberg Campus, Jena, 07745, Germany

SOURCE: Planta (2006), 224(2), 413-428

CODEN: PLANAB; ISSN: 0032-0935 PUBLISHER: Springer

DOCUMENT TYPE: Journal LANGUAGE: English

Chalcone synthase (CHS) related type III plant polyketide synthases (PKSs) are likely to be involved in the biosynthesis of diarylheptanoids (e.g. curcumin and polycyclic phenylphenalenones), but no such activity has been reported. Root cultures from Wachendorfia thyrsiflora (Haemodoraceae) are a suitable source to search for such enzymes because they synthesize large amts. of phenylphenalenones, but no other products that are known to require CHSs or related enzymes (e.g. flavonoids or stilbenes). A homol.-based RT-PCR strategy led to the identification of cDNAs for a type III PKS sharing only approx. 60% identity with typical CHSs. It was named WtPKS1 (W. thyrsiflora polyketide synthase 1). The purified recombinant protein accepted a large variety of aromatic and aliphatic starter CoA esters, including phenylpropionyl- and side-chain unsatd. phenylpropanoid-CoAs. The simplest model for the initial reaction in diarvlheptanoid biosynthesis predicts a phenylpropanoid-CoA as starter and a single condensation reaction to a diketide. Benzalacetones, the expected release products, were observed only with unsatd. phenylpropanoid-CoAs, and the best results were obtained with 4-coumaroy1-CoA (80% of the products). With all other substrates, WtPKS1 performed two condensation reactions and released pyrones. We propose that WtPKS1 catalyzes the first step in diarylheptanoid biosynthesis and that the observed pyrones are derailment products in the absence of downstream processing proteins.

455255-52-4 455255-54-6
RL: BSU (Biological study, unclassified); NPO (Natural product occurrence); BIOL (Biological study); OCCU (Occurrence)

(type III polyketide synthase from Wachendorfia thyrsiflora and its role in diarylheptanoid and phenylphenalenone biosynthesis)

RN 455255-52-4 CAPLUS

CN 1H,3H-Naphtho[1,8-cd]pyran-1-one, 6-[[6-0-[[(aminocarbony1)amino]carbony1]β-D-qlucopyranosy1]oxy]-5-hydroxy-7-pheny1- (CA INDEX NAME)

Absolute stereochemistry.

RN 455255-54-6 CAPLUS

CN 1H-Phenalen-1-one, 6-[[6-0-[[(aminocarbonyl)amino]carbonyl]-β-D-glucopyranosyl]oxy]-2,5-dihydroxy-7-phenyl- (CA INDEX NAME)

Absolute stereochemistry.

REFERENCE COUNT: 46 THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2005:889890 CAPLUS <<LOGINID::20080602>>

DOCUMENT NUMBER: 143:362725 TITLE: HPLC-NMR fo

HPLC-NMR for tissue-specific analysis of

phenylphenalenone-related compounds in Xiphidium

caeruleum (Haemodoraceae)

AUTHOR(S): Schneider, Bernd; Paetz, Christian; Hoelscher, Dirk;

Opitz, Stefan

CORPORATE SOURCE: Max-Planck-Institute for Chemical Ecology, Jena,

07745, Germany

SOURCE: Magnetic Resonance in Chemistry (2005), 43(9), 724-728

CODEN: MRCHEG; ISSN: 0749-1581

PUBLISHER: John Wiley & Sons Ltd.

DOCUMENT TYPE: Journal LANGUAGE: English

AB HPLC-1H NMR has been used to study the tissue-specific distribution of phenylphenalenones, polyphenolic natural products of Xiphidium caeruleum, a neotropical member of the Haemodoraceae plant family. The present results provide insight into the occurrence of phenylphenalenone-related compds. in root segments of whole plants and different in vitro culture lines of the same species.

455255-54-6

RN

RL: ANT (Analyte); BSU (Biological study, unclassified); NPO (Natural product occurrence); ANST (Analytical study); BIOL (Biological study); OCCU (Occurrence)

(HPLC-NMR for tissue-specific anal. of phenylphenalenone-related compds. in Xiphidium caeruleum (Haemodoraceae))

455255-54-6 CAPLUS

CN 1H-Phenalen-1-one, 6-[[6-0-[[(aminocarbonvl)amino]carbonvl]-β-Dglucopyranosyl]oxy]-2,5-dihydroxy-7-phenyl- (CA INDEX NAME)

Absolute stereochemistry.

REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 5 OF 12 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:495129 CAPLUS <<LOGINID::20080602>>

DOCUMENT NUMBER: 142:56578

TITLE: Functional evaluation of carbohydrate-centered glycoclusters by enzyme-linked lectin assay: Ligands

for concanavalin A Koehn, Maja; Benito, Juan M.; Mellet, Carmen Ortiz;

Lindhorst, Thisbe K.; Fernandez, Jose M. Garcia CORPORATE SOURCE:

Instituto de Investigaciones Quimicas, CSIC, Seville,

41092, Spain

ChemBioChem (2004), 5(6), 771-777 SOURCE:

CODEN: CBCHFX; ISSN: 1439-4227 Wiley-VCH Verlag GmbH & Co. KGaA

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 142:56578

AUTHOR(S):

PUBLISHER:

AB The affinities of the mannose-specific lectin Con A towards D-glucose-centered mannosyl clusters differing in the anomeric configuration of the monosaccharide core, nature of the bridging functional groups and valency, have been measured by a competitive enzyme-linked lectin assay. Pentavalent thioether-linked ligands I (X = S,n = 3, R = α -D-mannopyranosyl) were prepared by radical addition of 2,3,4,6-tetra-O-acetyl-1-thio- α -D-mannopyranose to the corresponding penta-0-allyl- α - or - β -D-glucopyranose, followed by deacetylation. The distinct reactivity of the anomeric position in the D-glucose scaffold was exploited in the preparation of a tetravalent cluster I (X = S,n = 6, R = Br)(II) that keeps a reactive advocanic group for further manipulation, including incorporation of a reporter group or attachment to a solid support. Hydroboration of the double bonds in the penta-O-allvl-α-D-qlucopyranose derivative and replacement of the hydroxy groups with amine moieties gave a suitable precursor for the preparation of pentavalent and 15-valent mannosides through the thiourea-bridging reaction I (X = NHC(S)NH, n = 3, R = α -Dmannopyranosyl) (III). The diastereomeric 1-thiomannose-coated clusters I were demonstrated to be potent ligands for Con A, with IC50 values for the inhibition of the Con A-yeast mannan association indicative of 6.4- and 5.5-fold increases in binding affinity (valency-corrected values), resp., relative to the value for Me α-D-mannopyranoside. The tetravalent cluster II exhibited a valency-corrected relative lectin-binding potency virtually identical to that of the homologous pentavalent mannoside. In sharp contrast, replacement of the 1-thiomannose wedges of I with α-D-mannopyranosylthioureido units III virtually abolished any multivalent or statistic effects, with a dramatic decrease of binding affinity. The 15-valent ligand possessing classical 0-glycosidic linkages, exhibited a two-fold increase in lectin affinity relative to the penta-O-(thioglycoside); it is less efficient based on the number of mannose units. The results illustrate the potential of carbohydrates as polyfunctional platforms for qlycocluster construction and underline the importance of careful design of the overall architecture in optimizing glycocluster recognition by specific lectins.

IT 808137-83-9P RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation and evaluation of glucose-centered mannosyl glycoclusters by enzyme-linked lectin assay as ligand to Con \mathbb{A})

RN 808137-83-9 CAPLUS

CN Thiourea, N- α -D-mannopyranosyl-N'-[3-[[2,3,4,6-tetrakis-0-[3-[](α -D-mannopyranosylamino)thioxomethyl]amino]propyl]- α -D-glucopyranosyl]oxyl]propyl]- (9C1) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

PAGE 1-A

PAGE 2-B

IT 808137-82-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and evaluation of glucose-centered mannosyl glycoclusters by enzyme-linked lectin assay as ligand to Con A)

- RN 808137-82-8 CAPLUS
- CN Thiourea, N-(2,3,4,6-tetra-O-acetyl- α -D-mannopyranosyl)-N'-[3-[12,3,4,6-tetra-Kis-O-[3-[[[(2,3,4,6-tetra-O-acetyl- α -D-mannopyranosyl)amino]thioxomethyl]amino]propyl]- α -D-glucopyranosyl]oxy[propyl]-(9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

PAGE 1-A

PAGE 1-B

PAGE 2-B



CORPORATE SOURCE:

SOURCE:

60 THERE ARE 60 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2003:290736 CAPLUS <<LOGINID::20080602>>

DOCUMENT NUMBER: 139:162042

TITLE: Histochemical analysis of phenylphenalenone-related compounds in Xiphidium caeruleum (haemodoraceae) AUTHOR(S):

Opitz, S.; Schnitzler, J.-P.; Hause, B.; Schneider, B. Max-Planck-Institute for Chemical Ecology, Jena,

07745, Germany

Planta (2003), 216(5), 881-889 CODEN: PLANAB: ISSN: 0032-0935

PUBLISHER: Springer-Verlag

DOCUMENT TYPE: Journal

LANGUAGE: English

Phenylphenalenones represent a typical group of secondary metabolites of the Haemodoraceae. Some of these phenolic compds. show organ-specific distribution within the plant. However, detailed information on cellular localization is still lacking. To this end, confocal laser-scanning microscopy, microspectral photometry and high-performance liquid chromatog. were used to study the tissue localization of phenylphenalenone-type compds. in Xiphidium caeruleum Aubl. From the autofluorescence potential of these compds., specific distribution of allophanylglucosides and non-glucosidic compds. of the phenylphenalenone-type in distinct cells of the roots (apical meristem, cortex, cap, epidermis) and the shoot system was revealed. Fluorescence enhancement using "Naturstoff reagent A" (NA) indicated the occurrence of NA-pos. natural products in the vacuoles of leaf epidermal cells. The present results provide new insights into the possible functions of phenylphenalenone-related compds. in the context of their localization. Addnl., the advantages and limitations of the techniques are discussed.

455255-53-5 455255-55-7

RL: BSU (Biological study, unclassified); BIOL (Biological study) (histochem. anal. of phenylphenalenone-related compds. in Xiphidium caeruleum)

RN 455255-53-5 CAPLUS

CN 1H,3H-Naphtho[1,8-cd]pyran-1-one, 6-[[6-0-[[(aminocarbonyl)amino]carbonyl]β-D-glucopyranosyl]oxy]-5-methoxy-7-phenyl- (CA INDEX NAME)

Absolute stereochemistry.

RN 455255-55-7 CAPLUS

CN 1H-Phenalen-1-one, 6-[[6-0-[[(aminocarbony1)amino]carbony1]-β-D-glucopyranosy1]oxy]-5-hydroxy-2-methoxy-7-phenyl- (CA INDEX NAME)

Absolute stereochemistry.

REFERENCE COUNT: 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2003:161564 CAPLUS <<LOGINID::20080602>>

DOCUMENT NUMBER: 139:19580

TITLE: Oxidative biosynthesis of phenylbenzoisochromenones from phenylphenalenones

AUTHOR(S): Opitz, Stefan; Schneider, Bernd

CORPORATE SOURCE: Max-Planck-Institut fuer Chemische Okologie, Jena,

D-07745, Germany

SOURCE: Phytochemistry (Elsevier) (2003), 62(3), 307-312

CODEN: PYTCAS; ISSN: 0031-9422

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal LANGUAGE: English

AB 13C NMR anal. demonstrated incorporation of two 13C labeled phenylalanine units into phenylphenalenones and phenylbenzoisochromenones co-occurring in Wachendorfia thyrsiflora. These results suggest oxidative formation of phenylbenzoisochromenones following a late branching from a common phenylphenalenone biosynthetic pathway. A dioxygenase-type mechanism, followed by decarboxylation, is suggested for the key steps of this conversion.

IT 455255-54-6

RL: BSU (Biological study, unclassified); BIOL (Biological study) (oxidative biosynthesis of phenylbenzoisochromenones from phenylphenalenones)

RN 455255-54-6 CAPLUS

CN 1H-Phenalen-1-one, 6-[[6-0-[[(aminocarbonyl)amino]carbonyl]-β-Dqlucopyranosyl]oxy]-2,5-dihydroxy-7-phenyl- (CA INDEX NAME)

Absolute stereochemistry.

IT 455255-53-5

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL

(Biological study)

(oxidative biosynthesis of phenylbenzoisochromenones from phenylphenalenones)

RN 455255-53-5 CAPLUS

CN 1H, 3H-Naphtho[1,8-cd]pyran-1-one, 6-[[6-0-[[(aminocarbonyl)amino]carbonyl]β-D-qlucopyranosyl]oxy]-5-methoxy-7-phenyl- (CA INDEX NAME)

REFERENCE COUNT:

SOURCE:

THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

23 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER:

2002:895377 CAPLUS <<LOGINID::20080602>>

DOCUMENT NUMBER: 139:66030

TITLE:

Organ-specific analysis of phenylphenalenone-related compounds in Xiphidium caeruleum

AUTHOR(S): Opitz, Stefan; Schneider, Bernd

CORPORATE SOURCE: Max-Planck-Institut fur Chemische Okologie, Jena,

D-07745, Germany

Phytochemistry (Elsevier) (2002), 61(7), 819-825

CODEN: PYTCAS; ISSN: 0031-9422

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The distribution pattern of phenylphenalenone-type compds. was

investigated in vegetative and reproductive organs of Xiphidium caeruleum. The highest total molar concentration, up to 30 µmol q-1 fr. wt, was detected in the root tip and the stamen. Accumulation of specific

phenylphenalenone-related metabolites including glycosides was found in the hypogeal plant parts, the leaves, and the reproductive organs of the inflorescence. Putative biosynthetic relationships and the role of these compds. in plant defense are discussed.

ΤТ 455255-52-4P 455255-53-5P 455255-54-6P

455255-55-7P

RL: BSU (Biological study, unclassified); PUR (Purification or recovery); BIOL (Biological study); PREP (Preparation)

(phenylphenalenone-related compds. in Xiphidium caeruleum)

455255-52-4 CAPLUS RN

CN 1H, 3H-Naphtho[1, 8-cd]pyran-1-one, 6-[[6-0-[[(aminocarbonyl)amino]carbonyl]β-D-glucopyranosyl]oxy]-5-hydroxy-7-phenyl- (CA INDEX NAME)

RN 455255-53-5 CAPLUS

CN 1H,3H-Naphtho[1,8-cd]pyran-1-one, 6-[[6-0-[[(aminocarbony1)amino]carbony1]β-D-glucopyranosy1]oxy]-5-methoxy-7-pheny1- (CA INDEX NAME)

Absolute stereochemistry.

RN 455255-54-6 CAPLUS

CN 1H-Phenalen-1-one, 6-[[6-0-[[(aminocarbonyl)amino]carbonyl]-β-D-glucopyranosyl]oxy]-2,5-dihydroxy-7-phenyl- (CA INDEX NAME)

455255-55-7 CAPLUS

RN

CN 1H-Phenalen-1-one, 6-[[6-0-[[(aminocarbonyl)amino]carbonyl]-β-Dglucopyranosyl]oxy]-5-hydroxy-2-methoxy-7-phenyl- (CA INDEX NAME)

Absolute stereochemistry.

REFERENCE COUNT:

THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

23 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2002:515160 CAPLUS <<LOGINID::20080602>>

137:213636 DOCUMENT NUMBER:

TITLE: Phenylphenalenone-related compounds: Chemotaxonomic markers of the Haemodoraceae from Xiphidium caeruleum AUTHOR(S): Opitz, Stefan; Hoelscher, Dirk; Oldham, Neil J.;

Bartram, Stefan; Schneider, Bernd CORPORATE SOURCE:

Max Planck Institute for Chemical Ecology, Jena, 07745, Germany

SOURCE: Journal of Natural Products (2002), 65(8), 1122-1130

CODEN: JNPRDF: ISSN: 0163-3864 American Chemical Society

PUBLISHER: DOCUMENT TYPE: Journal

LANGUAGE: English

AB Phytochem. anal. of Xiphidium caeruleum, a neotropical member of the family Haemodoraceae, resulted in the isolation and identification of a variety of phenylphenalenone-related compds. The structures of four new phenylbenzoisochromenones (e.g. I), a new phenylbenzoisochromenones (e.g. III) were elucidated using MS and NMR spectroscopic techniques. In addition, five new glucosides (e.g. IV) were identified, among them four allophanyl glucosides, representing a novel type of 6'-substituted glucosidic natural product. On the basis of the common occurrence of these 12 new and four known structures, hypothetical biosynthetic relationships are discussed. The natural product distribution of other genera of the Haemodoraceae is used as the basis to elaborate biogeog, characteristics of this plant family.

IT 455255-52-4P 455255-53-5P 455255-54-6P

455255-55-7P

RL: NPO (Natural product occurrence); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)

(phenylphenalenone-related compds. from Xiphidium caeruleum)

RN 455255-52-4 CAPLUS

RN 455255-53-5 CAPLUS

CN 1H,3H-Naphtho[1,8-cd]pyran-1-one, 6-[[6-0-[[(aminocarbony1)amino]carbony1]β-D-glucopyranosy1]oxy]-5-methoxy-7-pheny1- (CA INDEX NAME)

Absolute stereochemistry.

RN 455255-54-6 CAPLUS

CN 1H-Phenalen-1-one, 6-[[6-0-[[(aminocarbonyl)amino]carbonyl]-β-D-glucopyranosyl]oxy]-2,5-dihydroxy-7-phenyl- (CA INDEX NAME)

RN 455255-55-7 CAPLUS

CN 1H-Phenalen-1-one, 6-[[6-0-[[(aminocarbonyl)amino]carbonyl]-β-D-glucopyranosyl]oxy]-5-hydroxy-2-methoxy-7-phenyl- (CA INDEX NAME)

Absolute stereochemistry.

IT 455255-57-9 RL: PRP (Properties)

(properties of) RN 455255-57-9 CAPLUS

CN 1H,3H-Naphtho[1,8-cd]pyran-l-one, 5-methoxy-7-phenyl-6-[[2,3,4-tri-0-acetyl-6-0-[[(aminoarbonyl)amino]carbonyl]-β-D-glucopyranosyl]oxy](9C1) (CA INDEX NAME)

Absolute stereochemistry.

REFERENCE COUNT: 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2001:823666 CAPLUS <<LOGINID:

ACCESSION NUMBER: 2001:823666 CAPLUS <<LOGINID::20080602>> DOCUMENT NUMBER: 136:86015

TITLE: Trehalose-Based Octopus Glycosides for the Synthesis of Carbohydrate-Centered PAMAM Dendrimers and Thiourea-Bridded Glycoclusters

AUTHOR(S): Dubber, Michael; Lindhorst, Thisbe K.

CORPORATE SOURCE: Institut fuer Organische Chemie, Christian-Albrechts-

Universitaet zu Kiel, Kiel, D-24098, Germany SOURCE: Organic Letters (2001), 3(25), 4019-4022

CODEN: ORLEF7: ISSN: 1523-7060

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 136:86015

AB The nonreducing disaccharide trehalose was modified into an octa-amino-functionalized core mol. to serve in the synthesis of carbohydrate-centered PAMAM glycodendrimers and thiourea-bridged glycoclusters.

IT 386264-10-4P

RL: SPN (Synthetic preparation); PREP (Preparation)

(trehalose-based octopus glycosides for the synthesis of carbohydrate-centered PAMAM dendrimers and thiourea-bridged glycoclusters)

RN 386264-10-4 CAPLUS

CN α -D-Glucopyranoside, 2,3,4,6-tetrakis-O-[3-[[(α -D-

mannopyranosylamino)thioxomethyl]amino]propyl]- α -D-glucopyranosyl 2, 3, 4, 6-tetrakis-O-[2-[[(α -D-mannopyranosylamino)thioxomethyl]amino]propyl]- (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

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PAGE 2-B

L4 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2000:396983 CAPLUS << LOGINID::20080602>>

DOCUMENT NUMBER: 133 - 193346

TITLE: Synthesis of Allophanate-Derived Branched Glycoforms

from Alcohols and p-Nitrophenyl Carbamates

Chong, Pek Y.; Petillo, Peter A. AUTHOR(S):

CORPORATE SOURCE: Department of Chemistry, University of Illinois at

Urbana-Champaign, Urbana, IL, 61801, USA

SOURCE: Organic Letters (2000), 2(14), 2113-2116

CODEN: ORLEF7; ISSN: 1523-7060

American Chemical Society DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 133:193346

The formation of saccharide-derived carbamates and alkyl

2,4-dialkylallophanates from alcs. and p-nitrophenyl carbamates was described. Optimization of allophanate formation led to the synthesis of branched glycoforms with inter-saccharide allophanate linkages that are

rigidified by intramol. hydrogen bonds.

288844-61-1P

PUBLISHER:

RL: SPN (Synthetic preparation); PREP (Preparation)

(synthesis of allophanate-derived branched glycoforms from alcs. and p-nitrophenyl carbamates)

RN 288844-61-1 CAPLUS

B-D-Glucopyranoside, 2-azidoethyl 4-0-[(4-methoxyphenyl)methyl]-, CN

2,3-diacetate 6-[[2-[(2,3,4,6-tetra-0-acetvl-β-Dglucopyranosyl)oxy]ethyl][[[2-[(2,3,4,6-tetra-0-acetyl- β -D-

glucopyranosyl)oxylethyllaminolcarbonyllcarbamatel (9CI) (CA INDEX NAME)

PAGE 1-A



REFERENCE COUNT: 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2000:314834 CAPLUS <<LOGINID::20080602>>

DOCUMENT NUMBER: 132:344104

TITLE: Cloning and production of human adenine nucleotide

translocator and the synthesis and screening assays
for novel ligands

INVENTOR(S): Anderson, Christen M.; Davis, Robert E.; Clevenger, William; Wiley, Sandra Eileen; Miller, Scott W.;

Szabo, Tomas R.; Ghosh, Soumitra S.

PATENT ASSIGNEE(S): Mitokor, USA SOURCE: PCT Int. Appl

SOURCE: PCT Int. Appl., 175 pp.

CODEN: PIXXD2
DOCUMENT TYPE: Patent

LANGUAGE: Facent

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

							APPLICATION NO.										
					A2 20000511			WO 1999-US25883									
	W:	CZ, IN, MD,	DE, IS, MG,	DK, JP, MK,	DM, KE, MN,	EE, KG, MW,	ES, KP, MX,	FI, KR, NO,	GB, KZ, NZ,	GD LC PL	, BR, , GE, , LK, , PT,	GH, LR, RO,	GM, LS, RU,	HR, LT, SD,	HU, LU, SE,	ID, LV, SG,	IL, MA, SI,
	RW:	GH, DK,	GM, ES,	ΚΕ, FI,	LS, FR,	MW, GB,	SD, GR,	SL, IE,	SZ, IT,	TZ LU	, US, , UG, , MC,	ZW, NL,	AT, PT,	BE, SE,	CH,	CY,	DE,
											, SN,						
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										TTC	2001-	0111	2.2		2	0010	21.4
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US	6887670	B2	20050503				
US	20050003352	A1	20050106	US	2001-809827		20010316
US	6906174	B2	20050614				
US	20050003353	A1	20050106	US	2001-809889		20010316
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AU	2002029270	A	20020523	AU	2002-29270		20020328
AU	782387	B2	20050721				
AU	2002029293	A	20020523	AU	2002-29293		20020328
AU	782476	B2	20050804				
AU	2002029295	A	20020523	AU	2002-29295		20020328
AU	782449	B2	20050728				
JP	2004154139	A	20040603	JP	2003-408115		20031205
US	20040241801	A1	20041202	US	2004-763398		20040123
PRIORITY	APPLN. INFO.:			US	1998-185904	Α	19981103
				US	1999-393441	Α	19990908
				AU	2000-24729	A3	19991103
				JP	2000-579742	A3	19991103
				WO	1999-US25883	W	19991103
				US	2000-569327	В1	20000511

OTHER SOURCE(S): MARPAT 132:344104

AB Compns. and methods are provided for producing adenine nucleotide translocator (ANT) polypeptides and fusion proteins, including the production and use of recombinant expression constructs having a regulated promoter. Bacterial, insect, yeast (Sf9 cells and Trichoplusia ni cells), and mammalian expression systems are designed for reliable production of recombinant human ANT polypeptides in significant quantities, by employing regulated promoters and recombinant ANT fusion products with glutathione S-transferase and green fluorescent protein. The synthesis and properties of representative atractyloside derivs. as ANT ligands are described. ANT ligands and compns. and methods for identifying ANT lagands, agents that bind ANT. and agents that interact with ANT are also disclosed.

IT 267886-22-6P 267886-30-6P

RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)

(cloning and production of human adenine nucleotide translocator and the synthesis and screening assays for novel ligands)

RN 267886-22-6 CAPLUS

I9-Norkaur-16-en-18-oic acid, 2-[[6-0-[4-[[[[4-[[[2-[[2-[[5-([-2-[[bis(carboxymethyl)amino]ethyl]amino]ethyl] (carboxymethyl)amino]ethyl] (carboxymethyl)amino]ethyl]phenyl amino]thioxomethyl]amino]-1, 4-dioxobutyl]-2-0-(3-methyl-1-oxobutyl)-3, 4-di-0-sulfo-β-D-glucopyranosyl]oxy]-15-hydroxy-, (28, 4α, 15ω) - [9C1] (CA INDEX NABD)

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PAGE 2-A

но2С

RN 267886-30-6 CAPLUS

l,4-dioxobutyl]-2-0-(3-methyl-1-oxobutyl)-3,4-di-0-sulfo- β -D-glucopyranosyl]oxy]-15-hydroxy-, (2 β ,4 α ,15 α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

i-Bu

HO3SO

R

R

R

NH

O

PAGE 1-B

=> file stng COST IN U.S. DOLLARS	SINCE FILE	TOTAL
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	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-9.60

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=> cyclodextrin and thiourea
36900 CYCLODEXTRIN
10611 CYCLODEXTRINS
37912 CYCLODEXTRIN
(CYCLODEXTRIN OR CYCLODEXTRINS)
45097 THIOUREAS
5115 THIOUREAS
46885 THIOUREA
(THIOUREA OR THIOUREAS)
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L5 140 CYCLODEXTRIN AND THIOUREA

=> 15 and solub?

278276 SOUUB?
675932 SOL

18532 SOLS
683513 SOL

(SOL OR SOLS)
233022 SOLY

1 SOLIES
233022 SOLY
(SOLY OR SOLIES)
1002403 SOLUB?

(SOLUB? OR SOL OR SOLY)
L6 29 L5 AND SOLUB?

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